

AMENDMENTS

In the Claims

The following is a marked-up version of the claims with the language that is underlined (“___”) being added and the language that contains strikethrough (“—”) being deleted:

Claim 1 (currently amended): A lock structure, comprising:

a first element having a guide hole and a first through hole located co-axially with the guide hole;

a second element disposed under the first element and having a second through hole aligned with the first through hole;

a guiding element rotatably and movably disposed in the guide hole, wherein the guiding element has a third through hole aligned with the first through hole; and

a fixing pin inserted through the third through hole, the guide hole, the first through hole and the second through hole and having a first retaining portion, wherein the first retaining portion is formed on ~~[[the]]~~ a lower portion of the fixing pin and located under the second element, and ~~the cross section of the first retaining portion differs from those of other parts of the fixing pin~~ cross sections of the first retaining portion, first through hole, second through hole, and third through hole are substantially rectangular.

Claim 2 (original): The lock structure as claimed in claim 1, wherein the guide hole is circular and formed with inner threads.

Claim 3 (original): The lock structure as claimed in claim 2, wherein the guiding element is a hollow cylinder, and the outer surface of the guiding element is formed with outer threads that engage the inner threads of the guide hole.

Claim 4 (previously presented): The lock structure as claimed in claim 1, wherein the cross sections of the first through hole, second through hole and third through hole are co-axially aligned with the cross section of the first retaining portion of the fixing pin, and the first retaining portion pushes against the second element when the fixing pin rotates at an angle.

Claim 5 (original): The lock structure as claimed in claim 4, wherein the cross sections of the first retaining portion, first through hole, second through hole and third through hole are rectangular.

Claim 6 (canceled)

Claim 7 (original): The lock structure as claimed in claim 1, wherein the guiding element further comprises at least one second retaining portion formed in the third through hole.

Claim 8 (original): The lock structure as claimed in claim 7, wherein the fixing pin further comprises a third retaining portion formed on the upper portion of the fixing pin, and the second retaining portion abuts the third retaining portion.

Claim 9 (original): The lock structure as claimed in claim 8, wherein a first groove is formed on the third retaining portion.

Claim 10 (original): The lock structure as claimed in claim 1, wherein a second groove is formed on the guiding element.

Claim 11 (original): The lock structure as claimed in claim 1, wherein the height of the guiding element is smaller than that of the guide hole.

Claim 12 (currently amended): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, ~~the cross section of the first retaining portion differing from those of other parts of the fixing pin~~ and cross sections of the first retaining portion, first through hole, second through hole, and third through hole being substantially rectangular, comprising the steps of:

- (a) rotating the guiding element to advance the guiding element into the guide hole;
- (b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;
- (c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle; and
- (d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element.

Claim 13 (original): The method as claimed in claim 12, further comprising the steps of:

(e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element.

Claim 14 (original): The method as claimed in claim 13, wherein the guide hole is circular and formed with inner threads.

Claim 15 (original): The method as claimed in claim 14, wherein the guiding element is a hollow cylinder, and the outer surface of the guiding element is formed with outer threads engaging the inner threads of the guide hole.

Claim 16 (original): The method as claimed in claim 13, wherein the cross sections of the first through hole, second through hole and third through hole aligns with the cross section of the first retaining portion of the fixing pin.

Claim 17 (original): The method as claimed in claim 16, wherein the cross sections of the first retaining portion, first through hole, second through hole and third through hole are rectangular.

Claim 18 (canceled)

Claim 19 (original): The method as claimed in claim 13, wherein the guiding element further comprises at least one second retaining portion formed in the third through hole.

Claim 20 (original): The method as claimed in claim 19, wherein the fixing pin further comprises a third retaining portion formed on the upper portion of the fixing pin, and the second retaining portion abuts the third retaining portion.

Claim 21 (original): The method as claimed in claim 20, wherein a first groove is formed on the third retaining portion.

Claim 22 (original): The method as claimed in claim 21, wherein step (c) further comprises:
(c1) inserting a tool in the first groove of the third retaining portion to turn the fixing pin.

Claim 23 (original): The method as claimed in claim 21, wherein step (f) further comprises:
(f1) inserting a tool in the first groove of the third retaining portion to turn the fixing pin.

Claim 24 (original): The method as claimed in claim 13, wherein a second groove is formed on the guiding element.

Claim 25 (original): The method as claimed in claim 24, wherein step (a) further comprises:
(a1) inserting a tool in the second groove of the guiding element to turn the guiding element.

Claim 26 (original): The method as claimed in claim 24, wherein step (d) further comprises:

(d1) inserting a tool in the second groove of the guiding element to turn the guiding element.

Claim 27 (original): The method as claimed in claim 24, wherein step (e) further comprises:

(e1) inserting a tool in the second groove of the guiding element to turn the guiding element.

Claim 28 (previously presented): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, comprising the steps of:

- (a) rotating the guiding element to advance the guiding element into the guide hole;
- (b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;
- (c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle by inserting a tool in the first groove of the third retaining portion to turn the fixing pin;
- (d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element;
- (e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element;

wherein the guiding element further comprises at least one second retaining portion formed in the third through hole;

wherein the fixing pin further comprises a third retaining portion formed on the upper portion of the fixing pin, and the second retaining portion abuts the third retaining portion; and

wherein a first groove is formed on the third retaining portion.

Claim 29 (previously presented): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, comprising the steps of:

(a) rotating the guiding element to advance the guiding element into the guide hole;

(b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;

(c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle;

(d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element;

(e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle by inserting a tool in the first groove of the third retaining portion to turn the fixing pin; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element;

wherein the guiding element further comprises at least one second retaining portion formed in the third through hole;

wherein the fixing pin further comprises a third retaining portion formed on the upper portion of the fixing pin, and the second retaining portion abuts the third retaining portion; and

wherein a first groove is formed on the third retaining portion.

Claim 30 (previously presented): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, comprising the steps of:

(a) rotating the guiding element to advance the guiding element into the guide hole by inserting a tool in the second groove of the guiding element to turn the guiding element;

(b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;

(c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle;

(d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element;

(e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element;

wherein a second groove is formed on the guiding element.

Claim 31 (previously presented): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, comprising the steps of:

(a) rotating the guiding element to advance the guiding element into the guide hole;

(b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;

(c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle;

(d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element by inserting a tool in the second groove of the guiding element to turn the guiding element;

(e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element;

wherein a second groove is formed on the guiding element.

Claim 32 (previously presented): A method for using a lock structure having a first element, a second element, a guiding element and a fixing pin, the first element having a guide hole and a first through hole located under the guide hole, the second element disposed under the first element and having a second through hole corresponding to the first through hole, the guiding element rotatably and movably disposed in the guide hole and having a third through hole corresponding to the first through hole, the fixing pin having a first retaining portion formed on the lower portion of the fixing pin, comprising the steps of:

(a) rotating the guiding element to advance the guiding element into the guide hole;

(b) fitting the fixing pin into the third through hole, guide hole, first through hole and second through hole to locate the first retaining portion thereof under the second element;

(c) rotating the fixing pin by an angle in a first direction to rotate the first retaining portion thereof by the angle;

(d) rotating the guiding element to move the guiding element in the guide hole until the first retaining portion of the fixing pin abuts the second element;

(e) rotating the guiding element to move the guiding element downward in the guide hole and separate the first retaining portion of the fixing pin from the second element by inserting a tool in the second groove of the guiding element to turn the guiding element;

(f) rotating the fixing pin by an angle in a second direction opposite to the first direction to rotate the first retaining portion thereof by the angle; and

(g) removing the fixing pin from the third through hole, guide hole, first through hole and second through hole to separate the first element from the second element;

wherein a second groove is formed on the guiding element.